

Name \_\_\_\_\_ Period \_\_\_\_\_

College Prep Chemistry of the Earth

Assignment 4G – Writing Combination Reactions w/Polyatomic Ions

20 Points

For the following reactions, write the products of each reaction following the template provided. Show work for ionic compound

Reaction	$\text{Cr}^{3+} + \text{CO}_3^{2-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Reaction	$\text{Sr} + \text{BrO}_3^{1-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Formula	A	B
Ion Charge		
Cross Method		
AB		

Formula	A	B
Ion Charge		
Cross Method		
AB		

Reaction	$\text{Co}^{3+} + \text{OH}^{1-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Reaction	$\text{Zr}^{1+} + \text{SO}_4^{2-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Formula	A	B
Ion Charge		
Cross Method		
AB		

Formula	A	B
Ion Charge		
Cross Method		
AB		

Reaction	$\text{Pt}^{1+} + \text{CrO}_4^{2-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Reaction	$\text{Mo}^{3+} + \text{NO}_3^{1-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Formula	A	B
Ion Charge		
Cross Method		
AB		

Formula	A	B
Ion Charge		
Cross Method		
AB		

Reaction	$\text{Sn}^{4+} + \text{PO}_4^{3-} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Reaction	$\text{Y}^{3+} + \text{P} \rightarrow \underline{\hspace{2cm}}$			
A	+	B	$\rightarrow$	AB
	+		$\rightarrow$	

Formula	A	B
Ion Charge		
Cross Method		
AB		

Formula	A	B
Ion Charge		
Cross Method		
AB		